\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 241 181 121 TAACCTTTTACATGTTCACAGTCGATTCCTTTCCTCCGACCGTTGTATTGTCTCTTGTCC ${ t ATTGGAAAATGTACAAGTGTCAGCTAAGGAAAGGAGGCTGGCAACATAACAGAGAACAGG}$ TCCTCGTCAATGCCAGACACAGGTCACATCTACTTGAGTACTGACATGAGATGGGTCTTA $\mathtt{AGGAGCAGTTACGGTCTGTGTCCAGTGTAGATGAACTCATGACTGTACTCTACCCAGAAT}$ O ٢ Z שי U ĸ က × × 3 S ж О שי Ħ ש Ħ Ø LGFFS ഗ U Ħ Þ ۲ ഗ Þ ົດ × PAAAAAFE ۷ ت Ħ χ G Þ ਸ H V A C S ဂ Ļ × Σ Y Y Ø ĸ Þ 耳 ٣ ഗ Ľ SGL × ۲ × ם Ø 300 240 180 120 60

MATCH WITH FIG. 1B

CCAACCTCAACTCAAGGACAGAAGAGACTATAAAATTTGCTGCAGCACATTATAATACAG

102	L+++ 102 CACAGACATTTTTGTTTGAGAAGGGGTCGGTTACACCCCGGTTGGCTCTTAAACTACTTT MA即GHE WTTHE FIG. TD	7 b L	
	GTGTCTGTAAAAACAAACTCTTCCCCAGCCAATGTGGGGGCCAACCGAGAATTTGAT	2	
960	CGGGGCTTCGGCCTGCCAGCTGTGGACCCCACAAAGAACTAGACAGAAACTCATGCCAGT+++++++-	901 C	_
900	ATGACATCTGTGGACCAAACAAGGAGCTGGAGGATGAAGAGACCTGTCAGTGTGTGT	841 C	\circ
840	TGGCTCAGGAAGATTTTATGTTTTCCTCGGATGCTGGAGATGACTCAACAGATGGATTCC++++++	781 C	
780	AGGCAGCGAACAAGACCTGCCCCACCAATTACATGTGGAATAATCACATCTGCAGATGCC+++++++	721 C	_
720	TTTACAGACAAGTTCATTCCATTATTAGACGTTCCCTGCCAGCAACACTACCACAGTGTC++++++	661 C	
	MATTCH WITHURTO IN TO IO		

\bigcirc \cap \cap \cap 1081 ACACATGCCAGTGTGTATGTAAAAGAACCTGCCCCAGAAATCAACCCCTAAATCCTGGAA GTCCTAAAAGTATATCACTTCTTCACACAGCAACACAGGGAAGTATAACCGTTTCTGGTG CAGGATTTTCATATAGTGAAGAAGTGTGTGTCGTTGTCCCTTCATATTGGCAAAGACCAC ACCACCAAACATGCAGCTGTTACAGACGGCCATGTACGAACCGCCAGAAGGCTTGTGAGC TTACACGGACACTTACATGTCTTTCAGGTGTCTTTACGAACAATTTTCCTTTCTTCAAGG AATGTGCCTGTGAATGTACAGAAAGTCCACAGAAATGCTTGTTAAAAGGAAAGAAGTTCC TGTGTACGGTCACACATACATTTTCTTGGACGGGGTCTTTAGTTGGGGGATTTAGGACCTT TGGTGGTTTGTACGTCGACAATGTCTGCCGGTACATGCTTGGCGGTCTTCCGAACACTCG Ö റ A C \circ לה Н ю С ス O Ħ К Z ۷ 0 ഗ ഗ റ MATCH WITH FIG. × CYRRPCTNRQKACE H г শে X X មា ស לני [T] < שי ט H റ S Ö ر ص × റ X C L L <u>പ്</u> റ RNQP ٧ ٩ G × ഗ z × M A ۲ ഹ Ö z שי Ħ Z 1080 1200 1140 1260 : i

MATCH WITH FIG. 1E

AAATGAGCTAAGATTGTACTGTTTTCCAGTTCATCGATTTTCTATTATGGAAAACTGTGT

	7 0 0	MATCH WITH FIG. 1D G. E	1
()	107	TTTACTCGATTCTAACATGACAAAAGGTCAAGTAGCTAAAAGATAATACCTTTTGACACA M S *	0
	1321	TGCCACAGTAGAACTGTCTGTGAACAGAGAGACCCCTTGTGGGGTCCATGCTAACAAAGACA	0
	1381		0
		TTTCAGACAGAAAGGACTTGGTACACCTATTGAAATGTCTTTACCTGACCTCGAGTAGAC	
	1441	CAAAAGGCCTCTTGTAAAGA©TGGTTTTCTGCCAATGACCAAACAGCCAAGATTTTCCTC++ 1500 GTTTTCCGGAGAACATTTCTGACCAAAAGACGGTTACTGGTTTGTCGGTTCTAAAAGGAG	ŏ
	1501	TTGTGATTTCTTTAAAAGAATGACTATATAATTTATTTCCACTAAAAATATTGTTTCTGC++	Ö
	1561	ATTCATTTTATAGCAACAACTAGTAAAACTCACTGTGATCAATATTTTTATATCAT	
) (TAAGTAAAATATCGTTGTTAACCATTTTGAGTGACACTAGTTATAAAATATAGTA	0
	1621	GCAAAATATGTTTAAAATAAAATGAAAATTGTATTATAAAAAA	
		CGTTTTATACAAATTTTATTTTACTTTTAACATAAATATTTTTT	

ب	CGAGGCCACGGCTTATGCAAGCAAAGATCTGGAGGAGCAGTTACGGTCTGTGTCCAGTGT
71	AGATGAACTCATGACTGTAC
	Z
121	GAAAGGAGGCTGGCAACAT
	K G G W Q H N R E Q A N L N S R T
181	TATAAAATTTGCTGCAGCACATTATAATACAGAGATCTT
	А Н Ү
241	GAGAAAGACTCAATGCATGCCACGGGAGGTGTGTAT
	C K
301	CGCGACAAACACCTTCTTAA
	ATNTFFKPPCVSVYRCG

661 541 481 421 601 3 6 1 GGATGCTGGAGATGACTCAACAGATGGATTCCATGACATCTGTGGACCAAACAAGGAGCT ${ t TTACATGTGGAATAATCACATCTGCAGATGCCTGGCTCAGGAAGATTTTATGTTTTCCTC}$ CAATAGTGAGGGGCTGCAGTGCATGAACACCAGCACGAGCTACCTCAGCAAGACGTTATT ACGTTCCCTGCCAGCAACACTACCACAGTGTCAGGCAGCGAACAAGACCTGCCCCACCAA ${ t CACTTCCTGCCGATGCATGTCTAAACTGGATGTTTACAGACAAGTTCATTCCATTATTAG}$ ${ t TGAAATTACAGTGCCTCTCTCAAGGCCCCAAACCAGTAACAATCAGTTTTGCCAATCA}$ U 口 S \mathbb{Z} Σ G ר Н 回 סי G Z X \cap ٢ Z D טי U Н Ю Z 二 ٢ S റ ഗ U ഗ Ю Z \circ טי U ス Z ر G Ø Ю ٢ U Н \circ റ שי ļΤļ ល < Ю ス 二 K H × שי U × < ഗ Ю × Н Ю К tī Z \mathbf{C} < ㅈ G U Ľ 二 ß 屮 щ ഗ שי \circ ス Z വ Z Н ス שי Н Z Ľ Ħ ഗ Н ഗ Ø

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1021 961 901 841 781 GCCATGTACGAACCGCCAGAAGGCTTGTGAGCCAGGATTTTCATATAGTGAAGAAGTGTG CTGCCCCAGAAATCAACCCCTAAATCCTGGAAAATGTGCCTGTGAATGTACAGAAAGTCC GGATGAAGAGACCTGTCAGTGTGTCTGCAGAGCGGGGCTTCGGCCTGCCAGCTGTGGACC ACAGAAATGCTTGTTAAAAGGAAAGAAGTTCCACCACCAAACATGCAGCTGTTACAGACG Ю \cap U \circ ス שי 凹 G \cap Ø 口 H Z × Н U Ю \cap Z Ľ U שי Ó × Ø × \cap ດ U 団 Z 긔 ഗ < ス റ U ス a שי **Q** 口 Ю Ø 머 റ ス 二 Z D Н G \circ 二 < റ റ Ю × ٢ Ю റ H × Ø റ \circ ĮΤ Z שי < ß \circ ᅜ D റ റ ٢ S ス റ لتا Ø G Ħ S

FIG. 2C

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TTGTATTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1501
AAAACTCACTGTGATCAATATTTTTTATATCATGCAAAATATGTTTAAAATAAAATGAAAA	1441
TAATTTATTTCCACTAAAATATTGTTTCTGCATTCATTTTTATAGCAACAACAATTGGT 	1381
CTGCCAATGACCAAACAGCCAAGATTTTCCTCTTGTGATTTCTTTAAAAGAATGACTATA 	1321
TAACTTTACAGAAATGGACTGGAGCTCATCTGCAAAAGGCCTCTTGTAAAGACTGGTTTT	1261
) (
GAGACCCTTCTCCCATCCATCATATATATATATATATATA	1201
GTTCATCGATTTTCTATTATGGAAAACTGTGTTGCCACAGTAGAACTGTCTGT	1141
RCVPSYWQRPQMS	
TCGTTGTGTCCCTTCATATTGGCAAAGACCACAAATGAGCTAAGATTGTACTGTTTTCCA	1081

Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2
151 RVHHRSVKVA QVQLRÞVQVR EESNITMQIM STSYLSKTLF	101 AVCKTRTEVE AECKTRTEVE SYCHPIETLV TOCMPREVCI	51 IDSVGSEDSL GDP.GEEDGA APMAE	1 .MRTLACLLL MNRCWA.LFLMNFLL
KVEYVRKKPK KIEIVRKKPI RIK. PH QG EIT, VPLSQG	EIPRSQVDPT EISRRLIDRT DIFQEYPDEI DVGKEFGVAT	DTSLRAHGVH ELDLNMTRSH GGGQ EETIKFAAAH	LGCGYLAHVI SLCCYLRLVS SWVHWSLALL
LKEVQVRLEE FKKATVTLED QHIGEMSFLQ PKPVTISFAN	SAMFLIWPPC MANFLYWPPC EYIFKPSC	ATKHVPEKRP SGGELES NHHEVVKFMD YNTEILKSID	AEEAEIPREV AEGDPIPEEL LY
HLACKC HUNCECRPKK HTSCRCMSKL	AEANTACLECC AEANTACACC AEANTACACC AEANTACACC	LPIRRKRSI. .LARGRRSLG .VYQR	IERLARSQIH YEMLSDHSIR
200 AT ETVAAARPVT DRARQEKKSV DVYRQVHSII	150 MISSVECOPS MARHYCCRPT MOEGLECVPT MSEGLCCMNT	100 EEAVP SLTIAEPAMI	50 SIRDLQRLLE SFDDLQRLLH .LHHAKWSQA .LRKGGWQHN

Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2
301DSRCKARQ LFPSQCGANR	251 ACGP FHDICGPNKE	201 RSPGGSQEQR RGK RRSLPATLPQ
LELNERTCRC	LDEETCQCVC	YREEDTDVR. AKTPQTRVTI .GKGQKRKKK CQAANKTCPT
DKPRR VCKRTCPRNQ	RAGLRPASCG	RIVRVRRPPK GKHRKFKHTH KSRYKSWSVY VGARCCLMPW NYMWNNHICR CLAQEDFMFS
PLNPGKCACE	RRKHLFYQDP PHKELDR	GRHRKFKHTH VGARCCLMPW CLAQEDFMFS
350	300 QTCKCSCKNT QTCKCSCKNT	250 DKTALKETLG SLPGPHP

FIG. 3B

KGKKFHHQTC SCYRRPCTNR QKACEPGFSY SEEVCRCVPS YWQRPQMS

Vegf2

Pdgfb Vegf

Pdgfa

351

398

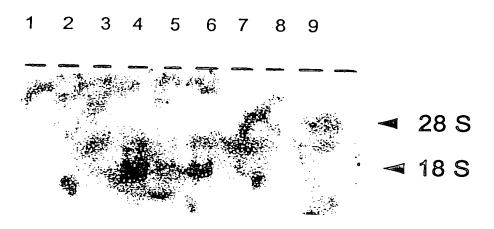
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г					
VEGF2	VEGF	PDGF\$	PDGFα		PERCEN EA
23.5	20.7	48.0		PDGFα	PERCENTAGE (%) OF AMINO ACID IDENTITIES BETWEEN EACH PAIR OF GENES IS SHOWN IN THE FOLLWING TABLE
22.4	22.7			PDGF β	GENES IS S DLLWING TABI
30.0				VEGF	D IDENTITIES HOWN IN TH LE
				VEGF2	BETWEEN E

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Expression of VEGF2 mRNA in Human Breast Tumor Cells



- 1. normal breast tissue
- 2. breast tumor tissue
- 3-9. breast tumor cell lines.

FIG. 5

2.4 kb 4.4 kb 9.5 kb 7.5 kb N ယ S တ ∞ ဖ 2.2 kb 1.3 kb

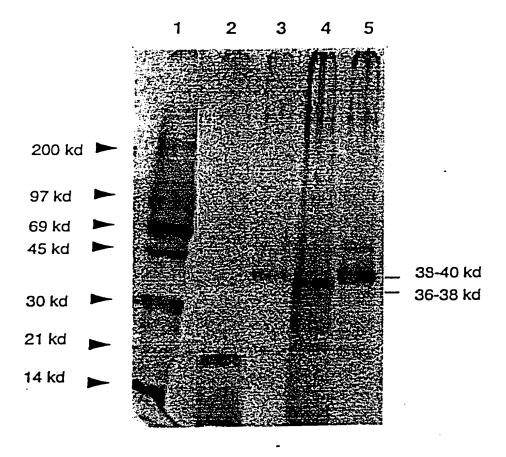
1. ovary 6. lung
2. testes 7. spleen
3. gall bladder 8. prostate
4. kidney 9. Hippocampus
5. liver 10. heart

Expression of VEGF2 mRNA in human adult tissues.

FIG. O

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F1G.7



Lane 1: 14-C and rainbow M.W. marker

Lane 2: FGF control

Lane 3: VEGF2 (M13-reverse & forward primers)
Lane 4: VEGF2 (M13-reverse & VEGF-F4 primers)
Lane 5: VEGF2 (M13-reverse & VEGF-F5 primers)

non-reducing gel

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4

Lane M: Lane 1: Lane 2: Marker

vector medium VEGF2 medium

FIG. 8A

30

2 7

Lane M: Marker

Salara.

Lane 1: Lane 2: vector cytoplasm vector medium

Lane 3: Lane 4: VEGF2 cytoplasm VEGF2 medium

 \neg IG. 8B

⋜ reducing gel N ⋜ ယ

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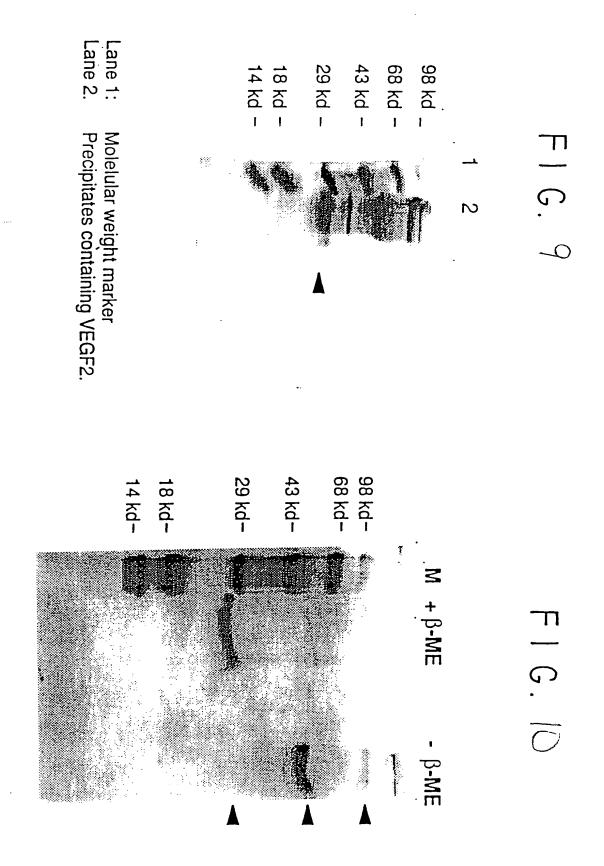
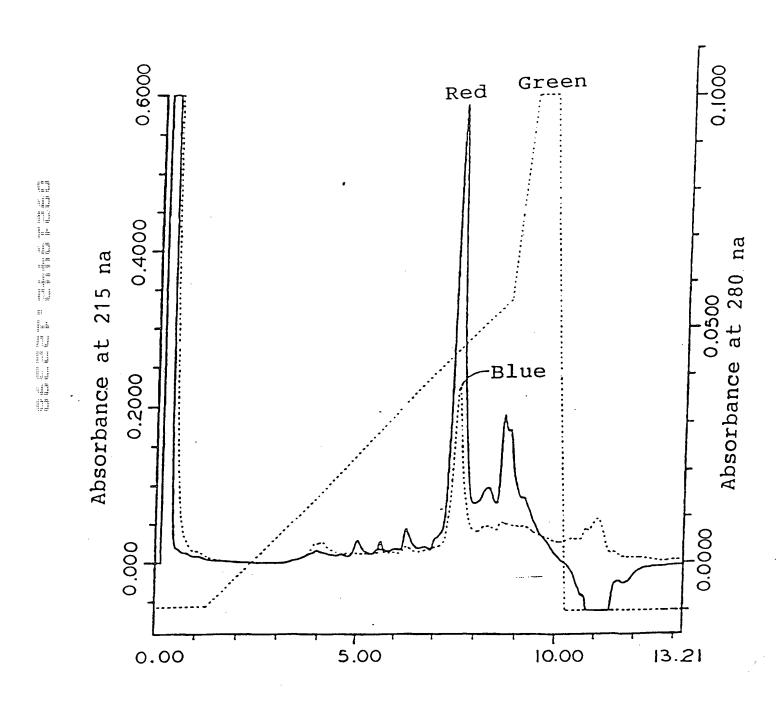


FIG. I



F1 G. 12

